

ABSTRACT

Adsorption cooling apparatus with an intermittently heated adsorbent container (12) containing an adsorbent (19) that exothermically adsorbs a working medium during an adsorption phase and again desorbs at higher temperatures while heat is added during a subsequent desorption phase, and with a condenser (4) that leads condensed working medium through a connection line (10) into the evaporator (4) which is in turn connected with the adsorbent through a working medium vapor line (9), wherein the condenser (4) is coupled to a buffer reservoir (14) that buffers at least a part of the condensation heat of the working medium vapor and that also can again dissipate the stored heat into the surroundings even during the adsorption phase.